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Assignment- 05

http://adbassignment5-env.eba-tjbn9azv.us-east-2.elasticbeanstalk.com/

application.py

```
from flask import Flask, render_template, request, url_for
import os


application = Flask(__name__)


base_dir = os.path.abspath(os.path.dirname(__file__))
wordsfile1 = os.path.join(base_dir, 'static/AliceCleaneredit.txt')
wordsfile2 = os.path.join(base_dir, 'static/AliceInWonderlandedit.txt')
wordsfile3 = os.path.join(base_dir, 'static/CandideEnedit.txt')
wordsfile4 = os.path.join(base_dir, 'static/CandideFredit.txt')
wordsfile5 = os.path.join(base_dir, 'static/CandideEn.txt')
wordsfile6 = os.path.join(base_dir, 'static/CandideFeredit.txt')
wordsfile7 = os.path.join(base_dir, 'static/DonQuijote.txt')
wordsfile8 = os.path.join(base_dir, 'static/Shakespare.txt')


@application.route('/', methods=['GET', 'POST'])
def index():
    return render_template('index.html')


@application.route('/wordsfile', methods=['GET', 'POST'])
def words_file():
    wordsin1 = []
    wordsin2 = []
    wordsin3 = []
    wordsin4 = []
    wordsin5 = []
```

```
wordsin6 = []
wordsin7 = []
wordsin8 = []
files = []
word1 = []
word2 = []
word3 = []
word4 = []
word5 = []
word6 = []
word7 = []
word8 = []

if request.method == 'POST':
    word_to_search = request.form.get('search_word')

    with open(wordsfile1, 'rb') as fileinput:
        for line in fileinput:
            for words in line.split():
                wordsin1.append(str(words))
    for values in wordsin1:
        word1.append(values[2:-1])

    if word_to_search in word1:
        movie_title1 = "AliceCleaneredit.txt"
        files.append(movie_title1)

    with open(wordsfile2, 'rb') as fileinput:
        for line in fileinput:
            for words in line.split():
                wordsin2.append(str(words))

    for values in wordsin2:
        word2.append(values[2:-1])

    if word_to_search in word2:
        movie_title2 = "AliceInWonderlandedit.txt"
        files.append(movie_title2)

    with open(wordsfile3, 'rb') as fileinput:
        for line in fileinput:
            for words in line.split():
                wordsin3.append(str(words))

    for values in wordsin3:
```

```
    word3.append(values[2:-1])

if word_to_search in word3:
    movie_title3 = "CandideEnedit.txt"
    files.append(movie_title3)

with open(wordsfile4, 'rb') as fileinput:
    for line in fileinput:
        for words in line.split():
            wordsin4.append(str(words))

for values in wordsin4:
    word4.append(values[2:-1])

if word_to_search in word4:
    movie_title4 = "CandideFredit.txt"
    files.append(movie_title4)

with open(wordsfile5, 'rb') as fileinput:
    for line in fileinput:
        for words in line.split():
            wordsin5.append(str(words))

for values in wordsin5:
    word5.append(values[2:-1])

if word_to_search in word5:
    movie_title5 = "CandideEn.txt"
    files.append(movie_title5)

with open(wordsfile6, 'rb') as fileinput:
    for line in fileinput:
        for words in line.split():
            wordsin6.append(str(words))

for values in wordsin6:
    word6.append(values[2:-1])

if word_to_search in word6:
    movie_title6 = "CandideFeredit.txt"
    files.append(movie_title6)

with open(wordsfile7, 'rb') as fileinput:
    for line in fileinput:
        for words in line.split():
```

```
                    wordsin7.append(str(words))

        for values in wordsin7:
            word7.append(values[2:-1])

        if word_to_search in word7:
            movie_title7 = "DonQuijote.txt"
            files.append(movie_title7)


        with open(wordsfile8, 'rb') as fileinput:
            for line in fileinput:
                for words in line.split():
                    wordsin8.append(str(words))

        for values in wordsin8:
            word8.append(values[2:-1])

        if word_to_search in word8:
            movie_title8 = "Shakespare.txt"
            files.append(movie_title8)

    return render_template("words_search.html", file = files)


if __name__ == '__main__':
    application.run()
```

For cleaning text file:

```
nltk.download('stopwords')
ps = PorterStemmer()


word_found = []
with open('AliceCleaner.txt', 'r', encoding="utf-8-sig") as fileinput:
    for line in fileinput:
        for words in line.split():
            word_found.append(words.lower())

text = " ".join(word_found)
cleaned_text = []
text_tokens = word_tokenize(text)
```

```
for word_found in text_tokens:
    if word_found not in stopwords.words():
        cleaned_text.append(word_found)
cleaned_text = [''.join(c for c in s if c not in string.punctuation) for s in cle
aned_text]
cleaned_text = list(filter(None, cleaned_text))
cleaned_text = ' '.join(cleaned_text)
with open('AliceCleaner.txt', "w") as output:
    output.write(str(cleaned_text))
```

index.html: `<!DOCTYPE html>`

```
<html>
<head>
    <style>
        h1 {
          background-color: aqua;
          border-style: double;
        }
        h3 {
            background-color: aqua;

          border-style: ridge;
        }
        div {
          border-style: double;
        }
        p {
          border-style: ridge;
        }
        </style>
    <title>Assignment 5</title>
</head>
<body>
<div style="text-align: center">
    <h1>Srinija Katakam</h1>
    <h3>1001861512</h3>
</div>
<div>
    <form action="{{url_for('words_file')}}" enctype=multipart/form-
data method="POST" style="width:30%;">
        <label for="search_word">Enter a word to search in books</label>
        <input type="text" id="search_word" name="search_word">
        <a href="/wordsfile"><input type="submit" value="Find"></a>
```

```
    </form>
</div>
</body>
</html>
```

words_search.html

```
<!DOCTYPE html>
<html>
<head>
    <style>
        h1 {
          border-style: double;
        }

        div {
          border-style: double;
        }
        p {
          border-style: ridge;
        }
        </style>
    <title>Assignment 5</title>
</head>
<body>
<div style="text-align: center">
    <h1>Srinija Katakam</h1>
    <h3>1001861512</h3>
</div>
<div>
    <p>
        <h3>
        The given word is found in: <br><br>
        {% for values in file %}
            {{values}}<br><br>
        {% endfor %}
    </h3>
    </p>
</div>
</body>
</html>
```

Requirements.txt

```
Flask==1.1.2
```

References:

[W3Schools Online Web Tutorials]